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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/702,192	11/05/2003	Christopher Alan Tutt	TEN / 63	7102
26875	7590	08/23/2005	EXAMINER	
WOOD, HERRON & EVANS, LLP 2700 CAREW TOWER 441 VINE STREET CINCINNATI, OH 45202			DINH, PHUONG K	
			ART UNIT	PAPER NUMBER
			2839	

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/702,192	Applicant(s) TUTT, CHRISTOPHER ALAN	
	Examiner Phuong KT Dinh	Art Unit 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-12, 14-24 and 30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 19-21 is/are allowed.
- 6) ☒ Claim(s) 1-12, 14-16, 18, 22-24 and 30 is/are rejected.
- 7) ☒ Claim(s) 17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>07/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-8, 10-12, 14-18, 22- 24 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li (U. S. Patent 6,712,320) in view of Lambert (U. S. Patent 5,795,162).

3. Regarding claims 1, 5, 7-8, 18, 22-24 and 30, Li see figures 1, 19-21, discloses a connector comprising: a signal array having a plurality of shielded conductors 12 having opposite ends each shielded conductor and including an axial conductive element and an outer conductive element (see figure 1) complete surrounding the axial conductive element, the plurality of shielded conductive 12 arranged in a body structure so that the inner and outer conductive elements are presented at a face surface of the body structure in a generally co-planar arrangement. Li discloses the claimed invention except for a compressible interface element positioned at the face surface of the body structure of the signal array, the interface element including a layer of insulating material having a plurality of conductive elements extending through the insulating material layer, the compressible. Lambert discloses a compressible interface element 40 including a layer of insulating material having a plurality of conductive elements

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extending through the insulating material layer. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Li to provide the compressible element including a layer of insulating material having a plurality of conductive elements extending through the insulating material layer as taught by Lambert so as to provide for more reliable contacting.

4. Regarding claim 2, Li discloses the claimed invention except for the at least one shielded conductor is a length of semi-rigid coax. It would have been obvious to one of ordinary skill in the art at the time the invention was made to form figure 21 as shielded conductor is a length of semi-rigid coax since produce no new result over Li coaxial cable.

5. Regarding claims 10-12, Li, see figures 1 and 19-21, discloses s the circuit boards are substantially orthogonal.

6. Regarding claims 13, Li, see figures 1 and 19-21, discloses the signal array includes multiple shielded conductors.

7. Regarding claim 14-16, Li, see figures 1 and 19-21, discloses the multiple shielded conductors 128 are molded into at least one block.

8. Regarding claim 6, Li and Lambert disclose the claimed invention except for the other ends of the shield conductors presented at an opposing face surface of the body structures. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Li and Lambert to provide the other ends of the shield conductors presented at an opposing face surface of the body structures so as to provide for more reliable contacting.

9. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li (U. S. Patent 6,712,320) in view of Lambert (U. S. Patent 5,795,162) and further in view of Driscoll.

10. Regarding claim 3, Li in view of Lambert disclose the claimed invention except for the at least one shielded conductor is a length semi-rigid twinax. Driscoll, see figures 1A, 1B, 14 and 16, discloses the at least one shielded conductor is a length semi-rigid twinax. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Li and Lambert to provide the at least one shielded conductor is a length semi-rigid twinax as taught by Driscoll so as to provide more signal capacity.

11. Regarding claim 4, Li and Lambert disclose the claimed invention except for a fastener used to compress the compressible interface elements to maintain the geometric arrangement of the axial conductive element and the outer conductive element through the insulating material layer to the signal bearing component. Driscoll, see figures 1A, 1B, 14 and 16, discloses a fastener 1503 used to compress the compressible interface elements to maintain the geometric arrangement of the axial conductive element and the outer conductive element through the insulating material layer to the signal bearing component. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Li and Lambert to provide the fastening as taught by Driscoll so as to keep the part together.

Allowable Subject Matter

12. Claim 17 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Allowable Subject Matter

13. Claims 19-21 are allowed.

14. The following is an examiner's statement of reasons for allowance:

15. The reasons allowable are stated in the previous office action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

16. Applicant's arguments with respect to claims 1-12, 14-16, 18, 22-24 and 30 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong KT Dinh whose telephone number is 571-272-2090. The examiner can normally be reached on 8 -5, 5 days a week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Phuong Dinh', is written over a horizontal line.

Phuong Dinh
January 31, 2005.